

## REMARKS

Claims 12-29 are pending. Claims 12, 18 and 24 are amended herein. Support for the claim amendments can be found at least on page 1, line 30, and in Figure 2 of the instant application.

### 102 Rejections

The instant Office Action states that Claims 12-13, 18-19 and 24-25 are rejected under 35 U.S.C. § 102(e) as being anticipated by Watanabe et al. ("Watanabe;" U.S. Patent No. 6,590,231). The Applicants have reviewed the cited reference and respectfully submit that the present invention as recited in Claims 12-13, 18-19 and 24-25 is not anticipated nor rendered obvious by Watanabe.

Independent Claim 12 recites "a first elongated nanowire on an insulating surface and a second elongated nanowire on said insulating surface, said first nanowire having a first non-curved portion and said second nanowire having a second non-curved portion, said first non-curved portion adjacent to and at a right angle to said second non-curved portion." Claim 13 is dependent on Claim 12 and recites additional limitations.

Independent Claim 18 recites "a first elongated nanowire on and touching an insulating surface and a second elongated nanowire on and touching the same side of said insulating surface, said first nanowire having a first straight portion and said second nanowire having a second straight portion, said first straight portion and said second straight portion forming a T-shaped structure." Claim 19 is dependent on Claim 18 and recites additional limitations.

Independent Claim 24 recites “a first linear nanowire on an insulating surface and a second linear nanowire on said insulating surface at a right angle to and in the same plane as said first nanowire, said first nanowire and said second nanowire forming a T-shaped structure.” Claim 25 is dependent on Claim 24 and recites additional limitations.

Applicants respectfully submit that Watanabe does not show or suggest the limitations cited above. Accordingly, Applicants respectfully submit that the present claimed invention as recited in Claims 12-13, 18-19 and 24-25 is not shown or suggested by Watanabe. As such, Applicants respectfully submit that the basis for rejecting Claims 12-13, 18-19 and 24-25 under 35 U.S.C. § 102(e) is traversed, and that Claims 12-13, 18-19 and 24-25 are in condition for allowance.

#### 103 Rejections

##### Claims 15, 21 and 27

The instant Office Action states that Claims 15, 21 and 27 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Watanabe and Hofmann et al. (“Hofmann;” U.S. Patent No. 6,707,098). The Applicants have reviewed the cited references and respectfully submit that the present invention as recited in Claims 15, 21 and 27 is not anticipated nor rendered obvious by Watanabe and Hofmann, alone or in combination.

Claims 15, 21 and 27 are dependent on Claim 12, 18 or 24 and recite additional limitations. Hence, by demonstrating that Watanabe and Hofmann (alone or in combination) do not show or suggest the limitations of Claims 12, 18 or 24, it is also demonstrated that Watanabe and Hofmann (alone or in combination) do not show or suggest the limitations of Claims 15, 21 and 27.

As presented above, Applicants respectfully submit that Watanabe does not show or suggest the limitations of Claims 12, 18 and 24. Applicants also respectfully submit that Hofmann does not overcome the shortcomings of Watanabe. Specifically, Applicants respectfully submit that Hofmann, alone or in combination with Watanabe, does not show or suggest “a first elongated nanowire on an insulating surface and a second elongated nanowire on said insulating surface, said first nanowire having a first non-curved portion and said second nanowire having a second non-curved portion, said first non-curved portion adjacent to and at a right angle to said second non-curved portion,” “a first elongated nanowire on and touching an insulating surface and a second elongated nanowire on and touching the same side of said insulating surface, said first nanowire having a first straight portion and said second nanowire having a second straight portion, said first straight portion and said second straight portion forming a T-shaped structure,” nor “a first linear nanowire on an insulating surface and a second linear nanowire on said insulating surface at a right angle to and in the same plane as said first nanowire, said first nanowire and said second nanowire forming a T-shaped structure” as recited in independent Claims 12, 18 and 24, respectively.

Therefore, Applicants respectfully submit that the present claimed invention as recited in independent Claims 12, 18 and 24 is not shown or suggested by Watanabe and Hofmann, alone or in combination. Accordingly, Applicants respectfully submit that the basis for rejecting Claims 15, 21 and 27 under 35 U.S.C. § 103(a) is traversed, as Claims 15, 21 and 27 are dependent on allowable base claims and contain additional limitations.

Claims 14, 20 and 26

The instant Office Action states that Claims 14, 20 and 26 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Watanabe and Jin (“Jin,” U.S. Patent No. 6,286,226). The Applicants have reviewed the cited references and respectfully submit that the present invention as recited in Claims 14, 20 and 26 is not anticipated nor rendered obvious by Watanabe and Jin, alone or in combination.

Claims 14, 20 and 26 are dependent on Claim 12, 18 or 24 and recite additional limitations. Hence, by demonstrating that Watanabe and Jin (alone or in combination) do not show or suggest the limitations of Claims 12, 18 or 24, it is also demonstrated that Watanabe and Jin (alone or in combination) do not show or suggest the limitations of Claims 14, 20 and 26.

As presented above, Applicants respectfully submit that Watanabe does not show or suggest the limitations of Claims 12, 18 and 24. Applicants also respectfully submit that Jin does not overcome the shortcomings of Watanabe. Specifically, Applicants respectfully submit that Jin, alone or in combination with Watanabe, does not show or suggest “a first elongated nanowire on an insulating surface and a second elongated nanowire on said insulating surface, said first nanowire having a first non-curved portion and said second nanowire having a second non-curved portion, said first non-curved portion adjacent to and at a right angle to said second non-curved portion,” “a first elongated nanowire on and touching an insulating surface and a second elongated nanowire on and touching the same side of said insulating surface, said first nanowire having a first straight portion and said second nanowire having a second straight portion, said first straight portion and said second straight portion forming a T-

shaped structure,” nor “a first linear nanowire on an insulating surface and a second linear nanowire on said insulating surface at a right angle to and in the same plane as said first nanowire, said first nanowire and said second nanowire forming a T-shaped structure” as recited in independent Claims 12, 18 and 24, respectively.

Therefore, Applicants respectfully submit that the present claimed invention as recited in independent Claims 12, 18 and 24 is not shown or suggested by Watanabe and Jin, alone or in combination. Accordingly, Applicants respectfully submit that the basis for rejecting Claims 14, 20 and 26 under 35 U.S.C. § 103(a) is traversed, as Claims 14, 20 and 26 are dependent on allowable base claims and contain additional limitations.

Claims 16-17, 22-23 and 28-29

The instant Office Action states that Claims 16-17, 22-23 and 28-29 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Watanabe and Yano et al. (“Yano;” JP 04-097564). The Applicants have reviewed the cited references and respectfully submit that the present invention as recited in Claims 16-17, 22-23 and 28-29 is not anticipated nor rendered obvious by Watanabe and Yano, alone or in combination.

Claims 16-17, 22-23 and 28-29 are dependent on Claim 12, 18 or 24 and recite additional limitations. Hence, by demonstrating that Watanabe and Yano (alone or in combination) do not show or suggest the limitations of Claims 12, 18 or 24, it is also demonstrated that Watanabe and Yano (alone or in combination) do not show or suggest the limitations of Claims 16-17, 22-23 and 28-29.

As presented above, Applicants respectfully submit that Watanabe does not show or suggest the limitations of Claims 12, 18 and 24. Applicants also respectfully submit that Yano does not overcome the shortcomings of Watanabe. Specifically, Applicants respectfully submit that Yano, alone or in combination with Watanabe, does not show or suggest “a first elongated nanowire on an insulating surface and a second elongated nanowire on said insulating surface, said first nanowire having a first non-curved portion and said second nanowire having a second non-curved portion, said first non-curved portion adjacent to and at a right angle to said second non-curved portion,” “a first elongated nanowire on and touching an insulating surface and a second elongated nanowire on and touching the same side of said insulating surface, said first nanowire having a first straight portion and said second nanowire having a second straight portion, said first straight portion and said second straight portion forming a T-shaped structure,” nor “a first linear nanowire on an insulating surface and a second linear nanowire on said insulating surface at a right angle to and in the same plane as said first nanowire, said first nanowire and said second nanowire forming a T-shaped structure” as recited in independent Claims 12, 18 and 24, respectively.

Therefore, Applicants respectfully submit that the present claimed invention as recited in independent Claims 12, 18 and 24 is not shown or suggested by Watanabe and Yano, alone or in combination. Accordingly, Applicants respectfully submit that the basis for rejecting Claims 16-17, 22-23 and 28-29 under 35 U.S.C. § 103(a) is traversed, as Claims 16-17, 22-23 and 28-29 are dependent on allowable base claims and contain additional limitations.

Conclusions

In light of the above remarks, Applicants respectfully request reconsideration of the rejected claims.

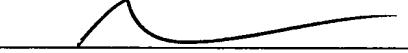
Based on the arguments presented above, Applicants respectfully assert that Claims 12-29 overcome the rejections of record and, therefore, Applicants respectfully solicit allowance of these claims.

The Examiner is invited to contact Applicants' undersigned representative if the Examiner believes such action would expedite resolution of the present Application.

Respectfully submitted,

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